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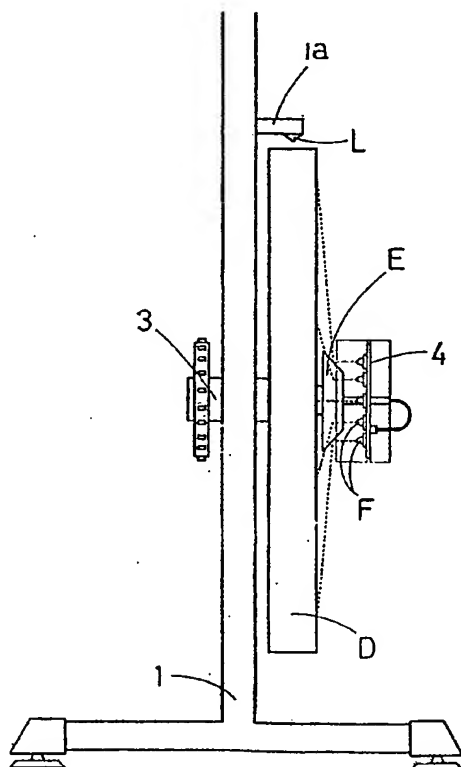
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[Continued on next page]

(54) Title: GYM BIKE THAT USES THE EFFECT OF STROBOSCOPIC LIGHTS FOR THE IMMEDIATE VISUAL CONTROL OF THE USER'S FLYWHEEL REVOLUTION SPEED



(57) Abstract: The present invention refers to a gym bike of the type provided with a flywheel actuated by pedals and an electronic control unit interfaced to a suitable keyboard and display capable of measuring the speed of the flywheel by means of a sensor and show it on the display, characterised by the fact that, once the speed that the user should maintain during the training session has been set on the control unit, the control unit can enable the operation of a stroboscopic light according to a switching on frequency equal to the angular speed or integer multiple or sub-multiples of the speed that the flywheel should maintain to keep the predetermined speed of the exercise; it being provided that the stroboscopic light is directed onto one or more reflecting marks mounted on the surface of the flywheel.

INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A63B22/06 A63B24/00 G01P3/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A63B G01P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 482 130 B1 (BARKER PAUL D ET AL) 19 November 2002 (2002-11-19) abstract column 8, line 18 - line 24; figures 12,14	1-5
A	DE 30 31 313 A (CHRISTOPHEIT HORST) 1 April 1982 (1982-04-01) page 8, line 32 -page 12, line 13; figures 1-3	1-5

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6482130	B1	19-11-2002	US 6146313 A	14-11-2000
			US 5685804 A	11-11-1997
			CA 2253175 A1	10-05-1999
			DE 69811175 D1	13-03-2003
			DE 69811175 T2	21-08-2003
			EP 0914842 A2	12-05-1999
			TW 397694 B	11-07-2000
			US 6749540 B1	15-06-2004
			AU 3577797 A	14-01-1998
			BR 9702329 A	20-07-1999
			CA 2228767 A1	31-12-1997
			CN 1210472 A, B	10-03-1999
			DE 69703086 D1	19-10-2000
			DE 69703086 T2	18-01-2001
			EP 1004332 A2	31-05-2000
			EP 0858358 A1	19-08-1998
			ES 2151739 T3	01-01-2001
			HK 1015721 A1	20-07-2001
			JP 11512953 T	09-11-1999
			WO 9749460 A1	31-12-1997
DE 3031313	A	01-04-1982	DE 3031313 A1	01-04-1982

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